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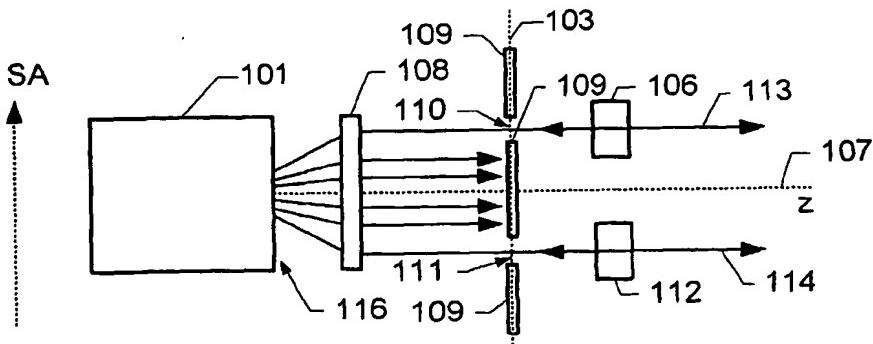
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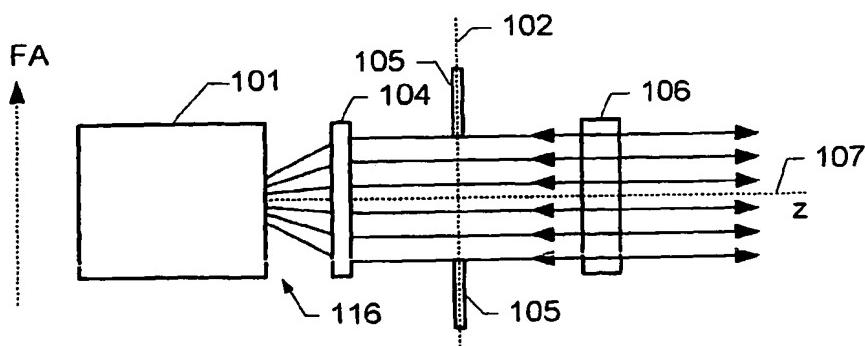
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[Continued on next page]

(54) Title: LASER SYSTEM



(57) Abstract: A laser system for generating at least two output beams comprising a laser multimode diode member (101) emitting a light beam with an intensity distribution comprising a plurality of spatial modes. A dual feedback cavity is provided by first and second selection means (108, 110, 111) for selecting corresponding to one of said plurality of spatial modes on opposite sides of the optical axis; and first and second reflective members (106, 112) where the laser diode member and the reflective members define a dual cavity and are adapted to reflect corresponding feedback fractions of the selected parts of the emitted light beam back into the laser diode member and to produce respective output beams (113, 114).



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ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H01S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched.

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 212 216 B1 (PILLAI RAMADAS M R) 3 April 2001 (2001-04-03) column 3-5; figures 1-5 column 9, line 45-55 column 11, line 48-60 ----	1, 12, 14, 15, 18
A	US 4 995 050 A (WAARTS ROBERT G ET AL) 19 February 1991 (1991-02-19) column 3, line 29 -column 4, line 30; figures 1-3 ----	1, 12, 14, 15, 18 -/-

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>JENSEN S J ET AL: "STABILITY OF THE SINGLE-MODE OUTPUT OF A LASER DIODE ARRAY WITH PHASE CONJUGATE FEEDBACK" APPLIED PHYSICS LETTERS, AMERICAN INSTITUTE OF PHYSICS, NEW YORK, US, vol. 76, no. 5, 31 January 2000 (2000-01-31), pages 535-537, XP000934642 ISSN: 0003-6951 the whole document</p> <p>-----</p>	1
A	<p>WO 02 21651 A (PETERSEN PAUL MICHAEL; PURUP ESKOFOT AS (DK)) 14 March 2002 (2002-03-14) cited in the application the whole document</p> <p>-----</p>	1-18

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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